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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,579	03/25/2004	Michael Karl Gschwind	AUS920031084US1	7116
45327 IBM CORPOR	7590 05/14/2007 PATION (CS)		EXAM	INER
IBM CORPORATION (CS) C/O CARR LLP			GU, SHAWN X	
670 FOUNDERS SQUARE 900 JACKSON STREET DALLAS, TX 75202			ART UNIT	PAPER NUMBER
			2189	
			MAIL DATE	DELIVERY MODE
			05/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	. 10/809,579	GSCHWIND ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Shawn X. Gu	2189					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply	VIO OET TO EVDIDE AN	AONTHICK OF THIRTY (20) DAVO					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a I will apply and will expire SIX (6) MOI te, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 April 2007.							
2a) This action is FINAL . 2b) ⊠ Thi	·						
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 28-48 is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>28 and 30-48</u> is/are rejected.							
7) Claim(s) <u>29</u> is/are objected to.	- · · · 						
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examin	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11) Ine oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action of John F10-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmont/s)							
Attachment(s) 1) Notice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		(s)/Mail Date Informal Patent Application					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other: _						

DETAILED ACTION

Response to Amendment

This Office action is in response to the Request for Continued Examination filed
 April 2007. Claims 28-48 are pending. Claims 1-27 have been cancelled. All
 objections and rejections not repeated below are withdrawn.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 44-48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 44 recites the limitation "tangible computer readable medium". The term "tangible" is not defined by the Applicant's disclosure and renders the claims' metes and bounds unclear, since it is unclear to the Examiner what exactly constitutes a "tangible" medium. It would be more appropriate to remove "tangible" from the claim limitations.

All dependent claims are rejected as having the same deficiencies as the claims they depend from. Appropriate correction is required.

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Double Patenting

4. Claims 41-50 of U.S. Patent Application 10/809,581 contain every element of claims 28 and 30-48 of the instant application and as such provisionally anticipate claims 28 and 30-48 of the instant application.

"A later patent claim is not patentably distinct from an earlier patent claim if the later claim is obvious over, or **anticipated by**, the earlier claim. <u>In re Longi</u>, 759 F.2d at 896, 225 USPQ at 651 (affirming a holding of obviousness-type double patenting because the claims at issue were obvious over claims in four prior art patents); <u>In re Berg</u>, 140 F.3d at 1437, 46 USPQ2d at 1233 (Fed. Cir. 1998) (affirming a holding of obviousness-type double patenting where a patent application claim to a genus is anticipated by a patent claim to a species within that genus). " ELI LILLY AND COMPANY v BARR LABORATORIES, INC., United States Court of Appeals for the Federal Circuit, ON PETITION FOR REHEARING EN BANC (DECIDED: May 30, 2001).

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir.

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1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 28, 30-42 and 44-47 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 31-40 of copending Application No. 10/809,581 (hereinafter "581") in view of Patterson and Hennessy [Computer Architecture: A Quantitative Approach, pages 677-687 and 695-701] (hereinafter "Patterson").

Claim 31 of '581 teaches every elements of claims 28, 39 and 44 except "each of the processing elements further comprises a prefetch page cache, the prefetch page cache configured to store a subset of the plurality of data items and the plurality of direction information items" and the memory transmits data to the processing elements independently "of whether the associated directory information indicates an access mode compatible with the requested access mode". Patterson teaches a cache coherency maintenance method in a multiprocessor system similar to the Applicant's invention, wherein each of the processing element comprises a prefetch page cache, the prefetch page cache configured to store a subset of the plurality of data items and the plurality of direction information items (see Patterson, page 680, Fig. 8.22) in order to provide distribution and fault-tolerance. Patterson further teaches a memory that

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transmits data to the processing elements independently of whether the associated directory information indicates an access mode compatible with the requested access mode (see Patterson, page 681 and Fig. 8.23, the messages sent among nodes to maintain coherency include memory data and coherence information, and they are sent independently of access mode compatibility, since compatibility tests are performed after receiving the messages) in order to maintain cache coherency. Therefore it would have been obvious to one ordinarily skilled in the art at the time of the Applicant's invention to combine the teachings of '581 and Patterson in order to provide distribution, fault-tolerance and cache coherency in a multiprocessor system.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Response to Arguments

7. Applicant's arguments with respect to claims 28 and 30-48 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawn Gu whose telephone number is (571) 272-0703. The examiner can normally be reached on 9am-5pm, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reginald Bragdon can be reached on (571) 272-4204. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shawn X Gu Assistant Examiner

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